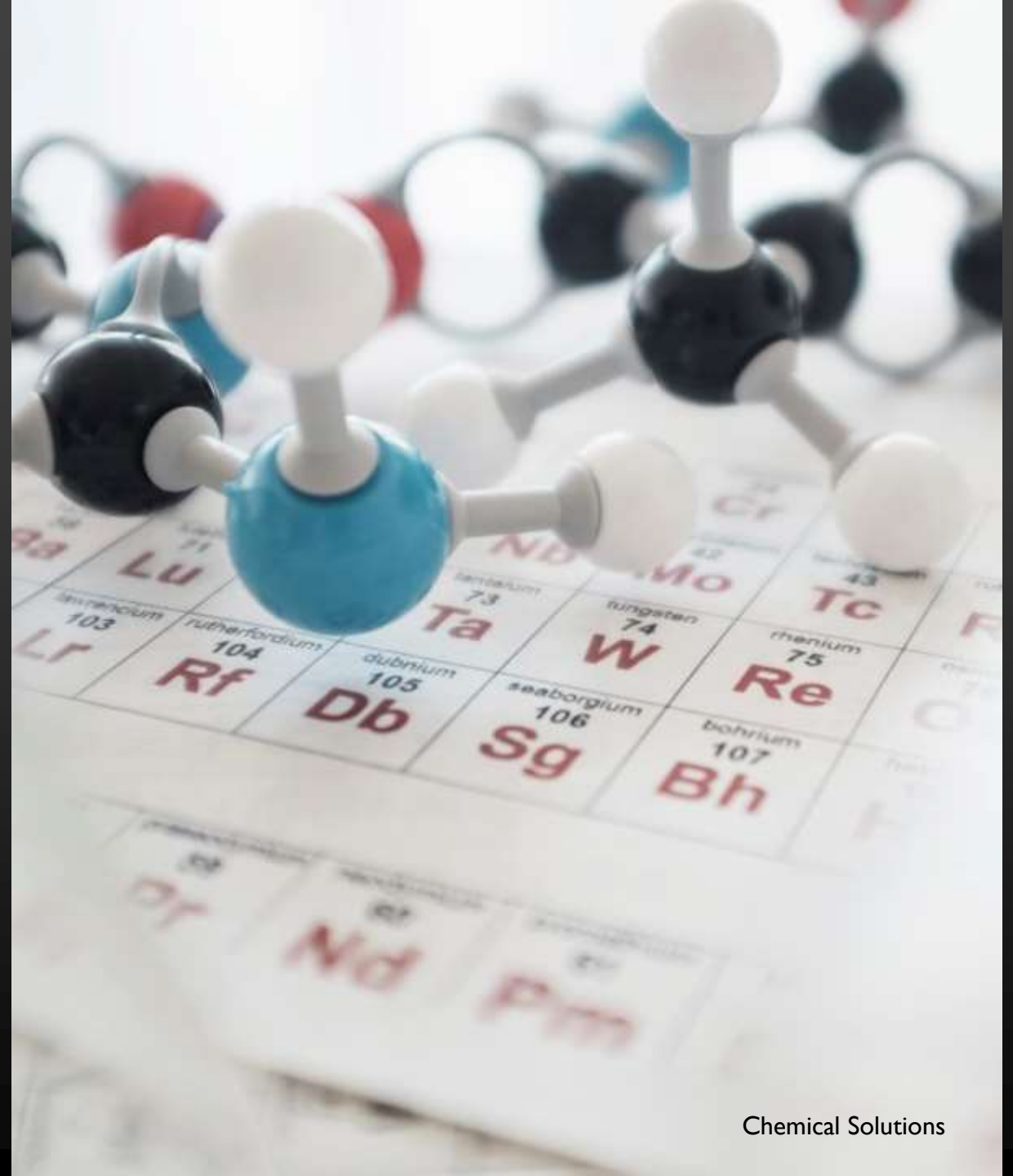


EPOLBIND

Polymer Binder for Agglomeration





Who we are and What we can do for your Company....



About us

Our company are dedicated to the manufacturing and distribution of additives for the chemical and polymer industry in the southern Europe.

Along the years we have been consolidating our presence into the market and, at the same time, exploring new business areas which offers to the present society an added value.

Our line of **EPOLBIND** Polymers to waste recycling in Mining, Iron and Steel industry stems from our interest in R&D and sustainability.



About us

- With a strong history of research and growth, **EPT Enterprise Group** has become a leading manufacturer and supplier of water-soluble polymers in southern Europe under our Brand **EPOLBIND**. Expanding our production capacity since 2019, we now have a manufacturing capacity of 150.000 MT per year. Within our portfolio of polymers, we are specialized in 3 fields:
 - **Mining**
 - **Iron & steel industry**
 - **Oil and gas**
- Our team, made up of experts in the chemical sector, will help you to select the most suitable polymer according to your needs.



Facilities

- We currently have 2000m² facilities where our chemical additives are manufactured, in La Coruña, Spain.
- The latest technologies are being used in our plant to maintain the highest quality standard.
- All our production is organized to control each batch we make in our laboratory.
- Strict controls to guarantee the full traceability of our polymers.



Our Markets:

- Process Industries: Sugar and Juice Industry.
- Paper Making.
- Thermal Power.
- Drilling fluids
- Sewage treatment
- Industrial Waste
- Raw Water Treatment
- Minerals and Mining products

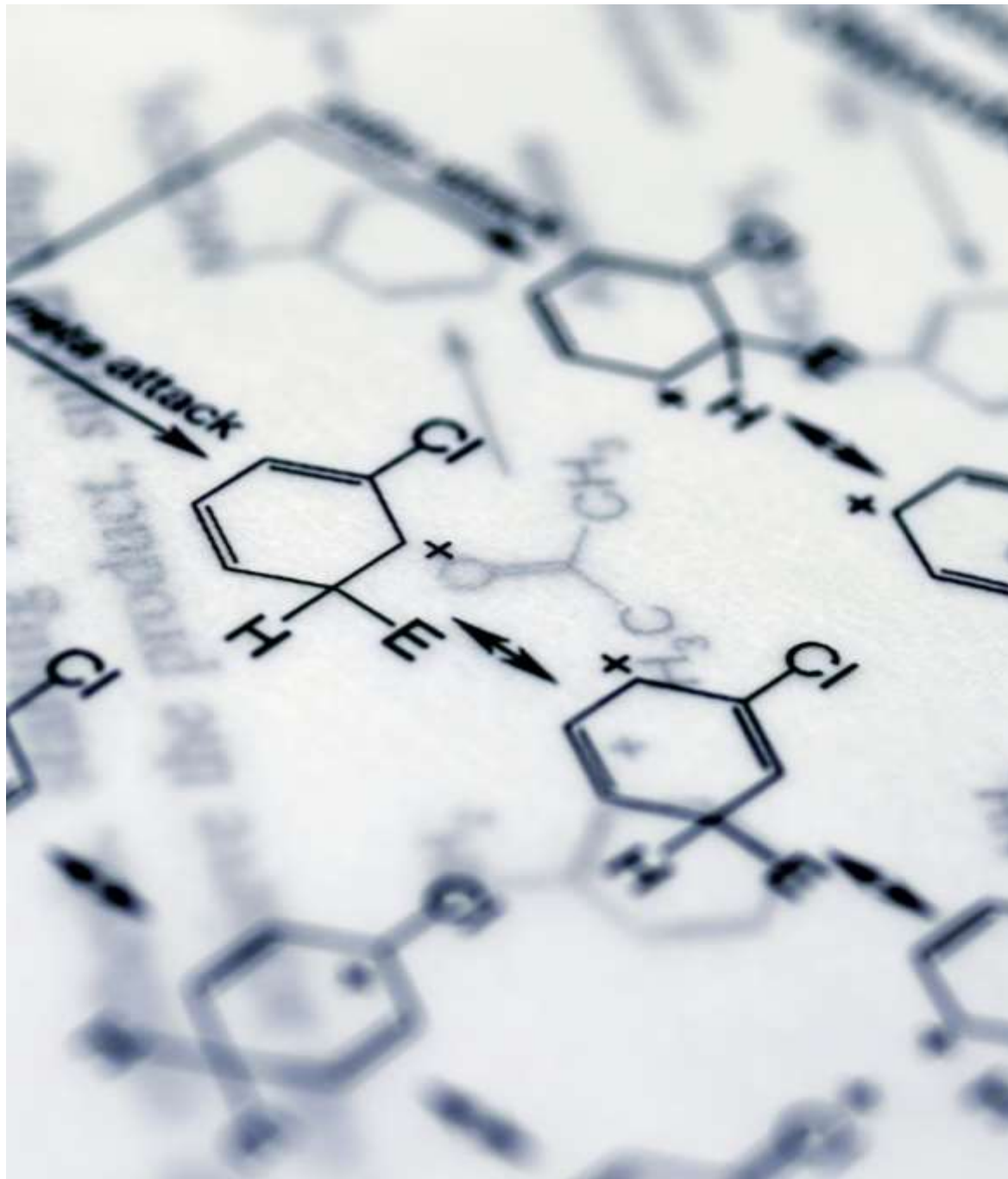
Polymer Binder



Specification:

	Polymer binder		
Specification	Anionic	Cationic	Nonionic
Apperance	off white granular powder		
Molecular Weight	5-22m	5-12m	5-12m
Charge density	5%-50%	5%-60%	0%-5%
Recommended working concentration	≤0,1%-0,5%		
Shelf Life	2 year with proper storage		





Adventajes

- Wide range of polymeric binders.
- Generation of odorous gases when mixed with water (disadvantage of basf). This is due to ammonia, it is possible to have polymers without ammonia.
- Particle size adjustment.
- Complex formulations with different binders.
- Development of new polymeric binders.
- Competitive prices.



Our advantages in Mining Industry



- **Fastcuring**
 - Curing Time 72h

- **Elevadas Propiedades mecánicas**
 - In green and Cured

- **Tailor-made**
 - Tailor made formulation for each customer

- **Bankability**
 - Low dosification, Purity,
 - Competitive price



Properties in lab test with Iron Ore and 0,6% Epolbind Binder

CCS Test



Test	Dia. (mm)	Curing time	Length (mm)	kN	kN/cm	Kgf/cm
Test n°2.0	13,82	72 h	53,18	2,76	0,52	52,92
Test n°2.1	13,85	72 h	52,14	2,35	0,45	45,96
Test n°2.2	13,86	72 h	55,68	2,77	0,50	50,73



Properties in lab test with Iron Ore and 0,6% Epolbind Binder

Drop Test



First of all, we work with the cured briquettes/pellets, where we obtain the following results:

Starting Weight: 129.66g

Final weight: 127.64g

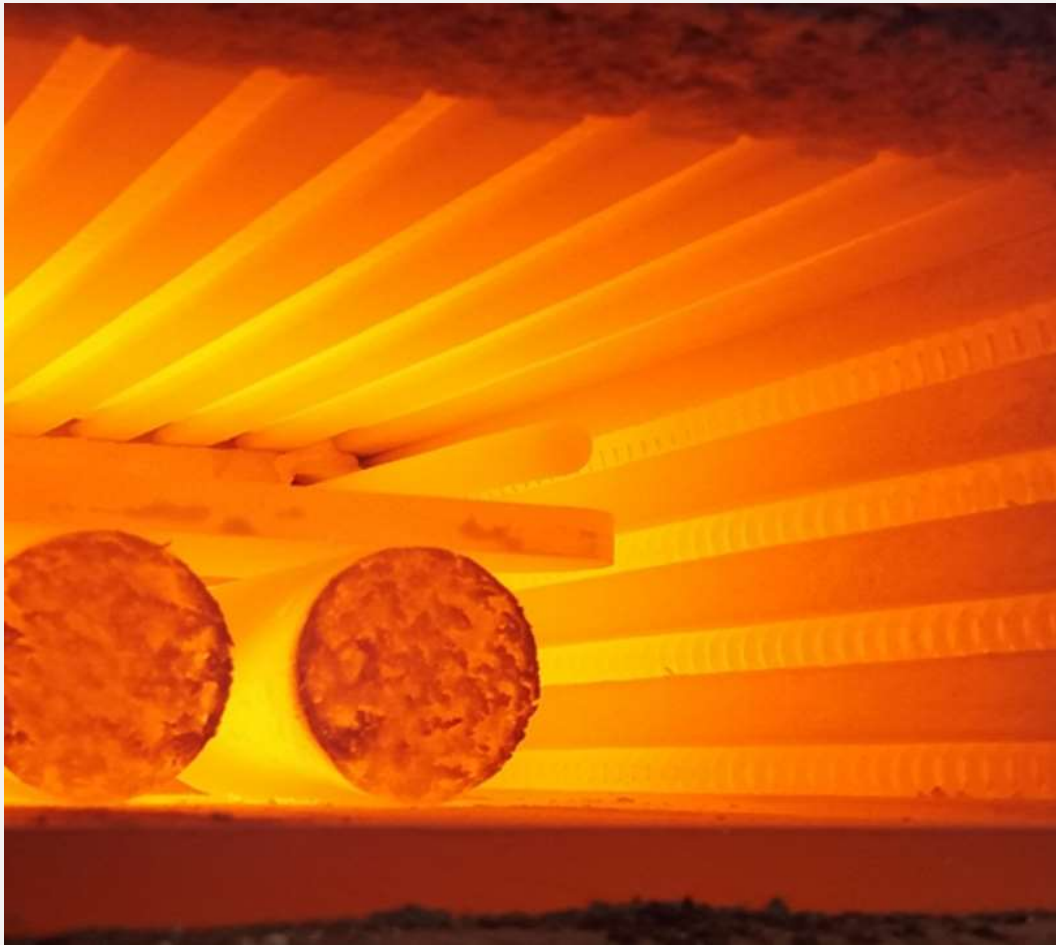
Sieve to 4mm

Fine:

1.55%



Need Temperature resisten....



- High temperature performance, tests and results, prepared for blast furnace and DRI:
- We must understand that the polymer is an organic binder, therefore, it does not resist high temperatures, the polymeric binder helps in the green properties (good compaction and no generation of fines, in addition to not caking when stacking), and the resistance mechanical once cured (CCS, tumble test, droop test...).
- If we want to have a good resistance to temperature, the polymer must be mixed with inorganic options. We have studies on the compaction of iron ore with polymer plus an inorganic binder, which generates a **hot tumble test of 98% and a reducibility of 48%.**

Packaging

- PE Bag of 25kg
- Paper Bag of 25Kg
- Bigbag of 1.000kg
- We offer the industry a wide range of packaging materials and solutions and we have the solution for every packaging need. If not, we will develop it with the customer.



Our international presence

The EPT group has an international structure that helps its clients overcome the challenges posed by the global economy. Thanks to our network of contacts, we can provide local service according to your needs, offering conditions and guarantees that are difficult to find in the market.

The work of our professionals has been key so that companies with prominent offices in remote international locations can work normally under the guidelines established in their headquarters.

The EPT Group today continues to provide on-demand support in remote offices and on-field support in larger offices whose number of users require daily and continuous support.



Thanks



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